



## Notification of Extension of Period of Effect of Approval

**Mt Arthur Coal Extension Project, Muswellbrook, New South Wales (EPBC 2011/5866)**

This decision is made under section 145D of the *Environment Protection and Biodiversity Conservation Act 1999*.

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<b>person to whom the approval is granted</b>	Hunter Valley Energy Coal Limited
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<b>ACN of approval holder</b>	062 894 464
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<b>approved action</b>	The development of five new open cut extension areas to uncover additional coal reserves on the existing Mt Arthur Coal Complex near Muswellbrook in the Upper Hunter Valley, New South Wales as described in the referral received by the Department on 1 March 2011 [See EPBC Act referral 2011/5866].
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### Extension of Period of Effect of Approval

The period of effect of the approval has been extended under section 145D(4) of the EPBC Act as described below.

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<b>New expiry date of approval</b>	This approval has effect until 30 June 2026.
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### Decision-maker

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<b>name and position</b>	Greg Manning Assistant Secretary Assessment and Post Approvals Branch
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**Signature**

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**date of decision**

14/11/19

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### Conditions attached to the approval

The conditions shown below are the conditions applicable to the approval on the date this extension of period of effect of approval is made.

These decisions are publicly available on the Department's website at <http://epbcnotices.environment.gov.au/referralslist/>

## Conditions attached to the approval

### Disturbance areas

1. The person taking the action must not clear more than 693.8 ha of the EPBC-listed White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland critically endangered ecological community (147.8 ha of woodland and 546 ha derived native grassland) within the **proposed action areas** of the Mt Arthur coal complex (shown in Appendix 1).
2. The person taking the action must not clear more than 362.7 ha of woodland providing suitable habitat for the EPBC listed Regent Honeyeater and Swift Parrot within the **proposed action areas** of the Mt Arthur coal complex (shown in Appendix 1). Woodland that provides suitable habitat for these species on this site includes the box-ironbark dominated woodlands and the remaining woodland and forest vegetation types present on the **proposed action areas**.

### Biodiversity Offset Strategy

3. The person taking the action must register a legally binding conservation covenant over the **conservation and offset areas** identified in Table 1 (and shown in Appendix 2a and 2b) by 30 December 2017. The mechanism must provide enduring protection for no less than:
  - a) 707.7 ha of White Box—Yellow Box—Blakely's Red Gum Grassy Woodland and Derived Native Grassland Ecological Community (Box Gum Woodland); and
  - b) 738.7 ha of suitable habitat for *Anthochaera phrygia* (Regent Honeyeater) and *Lathamus discolor* (Swift Parrot).

Note: Offsetting requirements for Regent Honeyeater and Swift Parrot habitat may be accommodated within the White Box—Yellow Box—Blakely's Red Gum Grassy Woodland and Derived Native Grassland Ecological Community components if this habitat is verified as present and includes specific habitat requirements for each of these species in accordance with the **Department's** listing advice, conservation advice and/or recovery plans.

4. The person taking the action must commence progressive regeneration of 1915 ha of woodland and forest communities, including 299.20 ha of Box Gum Woodland identified in Table 1, as described in the **Preliminary Documentation** within 1 year of commencement of construction.

**Table 1 Proposed Mt Arthur Coal Complex Biodiversity Offset Strategy**

Offset/Conservation area	Offset type and minimum size (ha)	
	EPBC-listed Box Gum Woodland	Habitat for EPBC listed birds
<b>Existing remnant vegetation</b>		
Mt Arthur Conservation Area	67	74
Saddlers Creek Conservation Area	87.1	51.2
Thomas Mitchell Drive Offset Area (on-site)	55.7	36.5
Thomas Mitchell Drive Offset Area (off-site)	4.9	63.9 (+ 62.05 marginal)
Middle Deep Creek Offset Area	493	373
Constable Offset Area	0	78
	<b>707.7</b>	<b>738.7</b>
<b>Proposed regeneration</b>		
500 Ha Regeneration Area	299.20	500
1415 ha Rehabilitation Corridors <sup>1</sup>		1415
<b>Total</b>		<b>1915</b>

### Biodiversity Management Plan

5. The person taking the action must submit for the **Minister's** approval the Biodiversity Management Plan (BMP) for the project by 30 June 2013. The BMP must reflect the proposed Mt Arthur Coal Complex Biodiversity Offset Strategy as outlined in Table 1 and as generally described in the **Preliminary**

<sup>1</sup> A breakdown into separate management areas is provided in the definitions

**Documentation** and focus on the re-establishment and protection of a minimum of 707.7 ha of Box Gum Woodland and a minimum of 738.7 ha of suitable habitat for Regent Honeyeater and Swift Parrot. The approved BMP must be implemented.

6. The BMP must describe how the implementation of the offset strategy would be integrated with the overall rehabilitation of the site and with local and regional corridors, existing conservation areas and existing biodiversity commitments at Mt Arthur Coal.
7. The BMP must include, but not be limited to, the following information:
  - a) a text description and map to clearly define the location, boundaries and size of the **conservation and offset areas** and the **regeneration area** and **rehabilitation corridors**. This must be accompanied with the **offset attributes** and a **shape file**;
  - b) details of the mechanisms, legal instrument, steps and timing for registering a legally binding conservation covenant that provides enduring protection over each nominated **conservation and offset area**;
  - c) a detailed description of the current condition of the extant vegetation of each conservation and offset area prior to any management activities. This will provide a baseline description of the vegetation condition for the purpose of monitoring;
  - d) details of vegetation communities to be re-established to achieve the 500 ha **regeneration area** and 1415 ha of **rehabilitated corridors**:
    - i. timing of progressive regeneration;
    - ii. criteria to determine success of re-establishment of the Box Gum Woodland and other woodland and forest communities;
    - iii. documentation including mapping of current environmental values relevant to **MNES** of the area;
    - iv. where revegetation through planting seedlings and/or seeds is intended details of appropriate species and ratios of species relevant to historically occurring listed migratory and listed threatened species' habitat and the White Box—Yellow Box—Blakely's Red Gum Grassy Woodland and Derived Native Grassland Ecological Community; and
    - v. the source and provenance of the seed and/or seedlings which will be used.
  - e) details of measures to offset the impacts to the **MNES** described in conditions 3 and 4 including:
    - i. details of management actions that will improve the condition of a minimum of 707.7 ha within the **conservation and offset areas** and 299.2 ha **regeneration area** to 'state 1' consistent with the state and transition model for Box Gum Woodland (Rawlings et al, 2010) and listing advice for the White Box—Yellow Box—Blakely's Red Gum Grassy Woodland and Derived Native Grassland Ecological Community;
    - ii. management schedules for all **conservation and offset areas**, the **regeneration area** and the **rehabilitation corridors** identifying targeted actions for specific areas to protect and enhance the extent and condition of habitat values of the offset areas, a map showing areas to be managed;
    - iii. type of actions for each **conservation and offset area**, the **regeneration area** and **rehabilitation corridors** and details of methods to be used;
    - iv. timing of management actions for each area;
    - v. performance criteria for each action;
    - vi. a detailed monitoring plan for each action including, but not limited to, control sites, periodic ecological surveys to be undertaken by a qualified ecologist, as agreed to in writing by the **Minister**, and consistent with survey guidelines for nationally threatened species and communities, to assess the success of the management actions measured against identified milestones and objectives;
    - vii. contingency measures to be implemented if performance criteria are not met;
    - viii. a process to report, to the **Department**, the progress of management actions undertaken in the **conservation and offset areas**, **regeneration area** and **rehabilitation corridors** and the outcome of those actions, including identifying any need for improved management and actions to undertake such improvement; and
    - ix. details of the various parties responsible for management, monitoring and implementing the management activities, including their position or status as a separate contractor.

8. Where strategic grazing is proposed as a management tool, the person undertaking the action must provide, as part of the BMP identified in condition 5, details of the proposed grazing activities for each management area. This must include:
  - a) objectives
  - b) details of the grazing methods to be used
  - c) timing including seasons in which grazing will occur, period of grazing and rest period
  - d) stocking rate per season
  - e) monitoring of impacts of grazing including any changes in the condition of vegetation, habitat and weed density.
9. Grazing activities must be undertaken in accordance with the guidelines for strategic grazing (Rawlings *et al*, 2010) and managed so that for each management unit at least 70% of the sward meets a minimum height of 10cm.
10. If the person undertaking the action proposes to undertake any action within the **conservation and offset areas** and **regeneration area**, other than those management activities related to managing the **conservation and offset areas** and **regeneration area**, or as set out in the conditions, approval must be obtained, in writing from the **Minister**. In seeking the **Minister's** approval the person undertaking the action must provide a detailed assessment of the area where the action is proposed to take place and an assessment of all associated adverse impacts on MNES. If the **Minister** agrees to the action within the conservation or offset area, the area identified for the action may be excised from the proposed conservation and offset areas and alternative offsets may be required in relation to the impact on **MNES**.
11. All survey data collected for the project must be collected and recorded so as to conform to data standards notified from time to time by the **Department**. When requested by the **Department**, the proponent must provide to the **Department** all species and ecological survey data and related survey information from ecological surveys undertaken for MNES. This survey data must be provided within 30 business days of request, or in a timeframe agreed to by the **Department** in writing. The **Department** may use the survey data for other purposes.
12. Within 14 days after the commencement of the action, the person taking the action must advise the **Department** in writing of the actual date of commencement.
13. The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the Biodiversity Offset Strategy and the Biodiversity Management Plan required by this approval, and make them available upon request to the **Department**. Such records may be subject to audit by the **Department** or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the **Department's** website. The results of audits may also be publicised through the general media.
14. Within three (3) months of the end of each Financial Year (30 June – 1 July) after the **commencement** of the action, the person taking the action must publish a report on their website addressing compliance with the conditions of this approval, including implementation of any management plans and strategies as specified in the conditions. Documentary evidence providing proof of the date of publication and non-compliance with any conditions of this approval must be provided to the **Department** at the same time as the compliance report is published. Reports must remain on the website for the period this approval has effect. The approval holder may cease preparing and publishing compliance reports required by this condition with written agreement of the **Minister** to do so.
15. If the person taking the action wishes to carry out any activity otherwise than in accordance with the Biodiversity Offset Strategy and the Biodiversity Management Plan as specified in the conditions, the person taking the action must submit to the **Department** for the **Minister's** written approval a revised version of that Biodiversity Offset Strategy and the Biodiversity Management Plan. The varied activity shall not commence until the **Minister** has approved the varied plan in writing. The **Minister** will not approve a varied plan unless the revised plan would result in an equivalent or improved environmental outcome over time. If the **Minister** approves the revised Biodiversity Offset Strategy and the Biodiversity Management Plan, that Biodiversity Offset Strategy and the Biodiversity Management Plan, must be implemented in place of the Biodiversity Offset Strategy and the Biodiversity Management Plan, originally approved.
16. If the **Minister** believes that it is necessary or convenient for the better protection of listed threatened species and communities and listed migratory species to do so, the **Minister** may request that the person taking the action make specified revisions to the Biodiversity Offset Strategy and the Biodiversity Management Plan, specified in the conditions and submit the revised Biodiversity Offset Strategy and the

Biodiversity Management Plan for the **Minister's** written approval. The person taking the action must comply with any such request. The revised approved Biodiversity Offset Strategy and the Biodiversity Management Plan must be implemented. Unless the **Minister** has approved the revised Biodiversity Offset Strategy and the Biodiversity Management Plan then the person taking the action must continue to implement the Biodiversity Offset Strategy and the Biodiversity Management Plan originally approved, as specified in the conditions.

17. Unless otherwise agreed to in writing by the **Minister**, the person taking the action must publish all management plans referred to in these conditions of approval on their website. Each management plan must be published on the website within 1 month of being approved.

## **Definitions**

### **Clearance of native vegetation.**

The cutting down, felling, thinning, logging, removing, killing, destroying, poisoning, ringbarking, uprooting or burning of native vegetation.

### **Commencement**

The commencement is defined by the first clearing of any vegetation or **construction** of any infrastructure associated with the proposed action.

### **Conservation and Offset Areas**

Described in the Preliminary Documentation submitted by Hunter Valley Energy Coal as measures to offset impact to MNES and defined conceptually in Figures 5, 6 and 7 of that document.

### **Construction**

Includes any preparatory works required to be undertaken including clearing vegetation, the erection of any onsite temporary structures and the use of heavy duty equipment for the purpose of breaking the ground for buildings or infrastructure.

### **Department.**

The Australian Government Department administering the *Environment Protection and Biodiversity Conservation Act 1999*.

### **Minister**

The Minister administering the *Environment Protection and Biodiversity Conservation Act 1999* and includes a delegate of the Minister.

### **MNES (Matters of National Environmental Significance)**

Matters protected by a provision of Part 3 of the EPBC Act and described in section 34.

### **Preliminary Documentation**

Preliminary documentation means:

- The referral EPBC 2011/5866 prepared by David Robertson of Cumberland Ecology and submitted to the Department of Sustainability, Environment, Water, Population and Communities by on the 1 March 2011 on behalf of Hunter Valley Energy Coal P/L. The referral should include all the following references or attachments that were provided with the original referral including:
  - Cumberland Ecology (2010), Mt Arthur Flora and Fauna Monitoring Program – draft ecological monitoring report
  - Cumberland Ecology (2009), Mt Arthur 2009 Flora and Fauna Monitoring Program – ecological monitoring report
  - Cumberland Ecology (2009), Mt Arthur 2008 Flora and Fauna Monitoring Program – ecological monitoring report
  - Dames and Moore (2000), Mt Arthur North Coal Project – Flora and Fauna Report
  - Umwelt Environmental Consultants (2003), Mt Arthur Coal – ecological monitoring report
  - Umwelt Environmental Consultants (2005), Mt Arthur Coal – 2004 ecological monitoring report
  - Umwelt Environmental Consultants (2006), Mt Arthur Coal – 2005 ecological monitoring report

- Umwelt Environmental Consultants (2006), Mt Arthur Coal –ecological assessment proposed south pit extension
  - Umwelt Environmental Consultants (2007), Mt Arthur Coal – 2006 ecological monitoring report
  - Cumberland Ecology (2009) Mt Arthur Coal Consolidated Project – ecological assessment
- Material provided to the department in response to the request for further information on 5 July 2011, Umwelt Environmental Consultants, (Dec 2011) Preliminary Documentation for DSEWPaC

### **Proposed Action Areas**

Those areas referred by Hunter Valley Energy Coal for consideration under the EPBC Act and described as the Proposed Action Areas in the Preliminary Documentation.

### **Offset attributes**

Mean an '.xls' file capturing relevant attributes of the Offset Area, including the EPBC reference ID number, the physical address of the offset site, coordinates of the boundary points in decimal degrees, the EPBC protected matters that the offset compensates for, any additional EPBC protected matters that are benefiting from the offset, and the size of the offset in hectares.

### **Shapefile**

Means an ESRI Shapefile containing '.shp', '.shx' and '.dbf' files and other files capturing attributes of the Offset Area, including the shape, EPBC reference ID number and EPBC protected matters present at the relevant site. Attributes should also be captured in '.xls' format.

### **Regeneration Area**

Described in the Preliminary Documentation submitted by Hunter Valley Energy Coal as a measure to offset impact to MNES and defined as a 500 ha area to be regenerated to natural woodland and forests.

### **Rehabilitation Corridors**

Described in the Preliminary Documentation submitted by Hunter Valley Energy Coal as a measure to offset impact to MNES and defined as 1415 ha Rehabilitation Corridors to be regenerated to natural woodland and forests as follows:

- Woodland corridors (1005 ha)
- Edderton Road revegetation area (154 ha)
- Regeneration corridors (45 ha)
- Rehabilitation areas (211 ha)

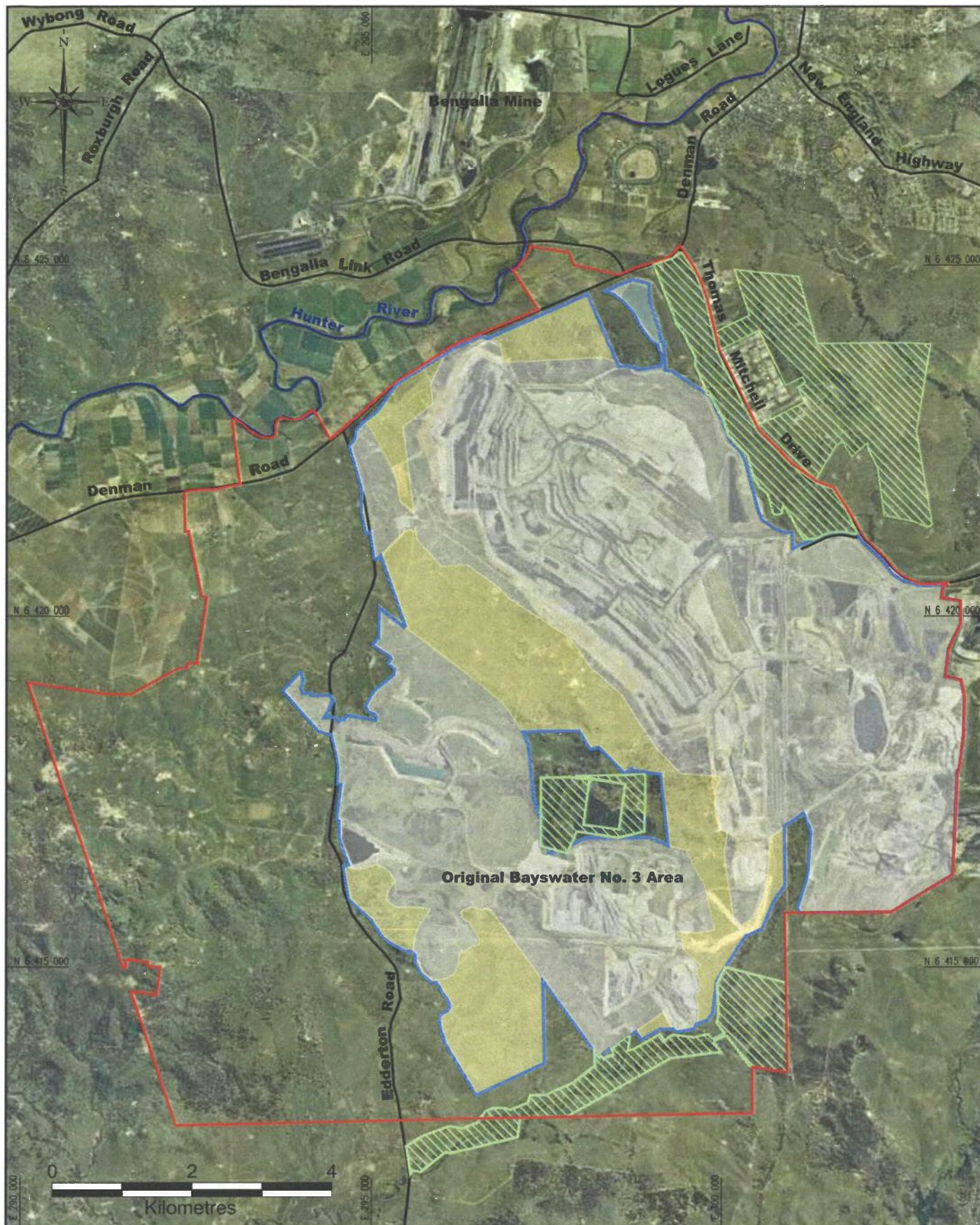
### **Remnant vegetation.**

Any native vegetation that is not regrowth.

### **Appendices**

- |             |  |
|-------------|--|
| Appendix 1  | Proposed action areas as referred to the department on 1 March 2012 and shown in Figure 3 of the referral documentation submitted by Hunter Valley. Energy Coal on 1 March 2011.               |
| Appendix 2a | Conservation and offset areas onsite or adjacent to the Mt Arthur Coal Mine Complex shown conceptually in Figures 5 (Appendix 2a(i)) and 6 (Appendix 2a(ii)) of the Preliminary Documentation. |
| Appendix 2b | Middle Deep Creek Offset Area located approximately 60 km from the Mt Arthur Coal Mine Complex and shown conceptually in Figure 7 of the Preliminary Documentation.                            |





— Mt Arthur Coal Complex  
 — Active Operational Areas (not part of the Proposed Action)  
 — Areas to be Referred (the Proposed Action Area)  
 — Conservation Areas  
 — Open Cut Disturbance Boundary

Hansen Bailey  
 bhpbilliton  
 Co-ordinate System: MGA Zone 56  
 Aerial Data: October 2010

**MT ARTHUR COAL EXTENSION PROJECT**

Referral Area

Figure 3

Cad File: 07072E.dwg	Date: 10.02.11	Drawn: JD
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Source: Mr Arthur Cool

0 1 0 2 0 4  
1:80,000

#### Legend

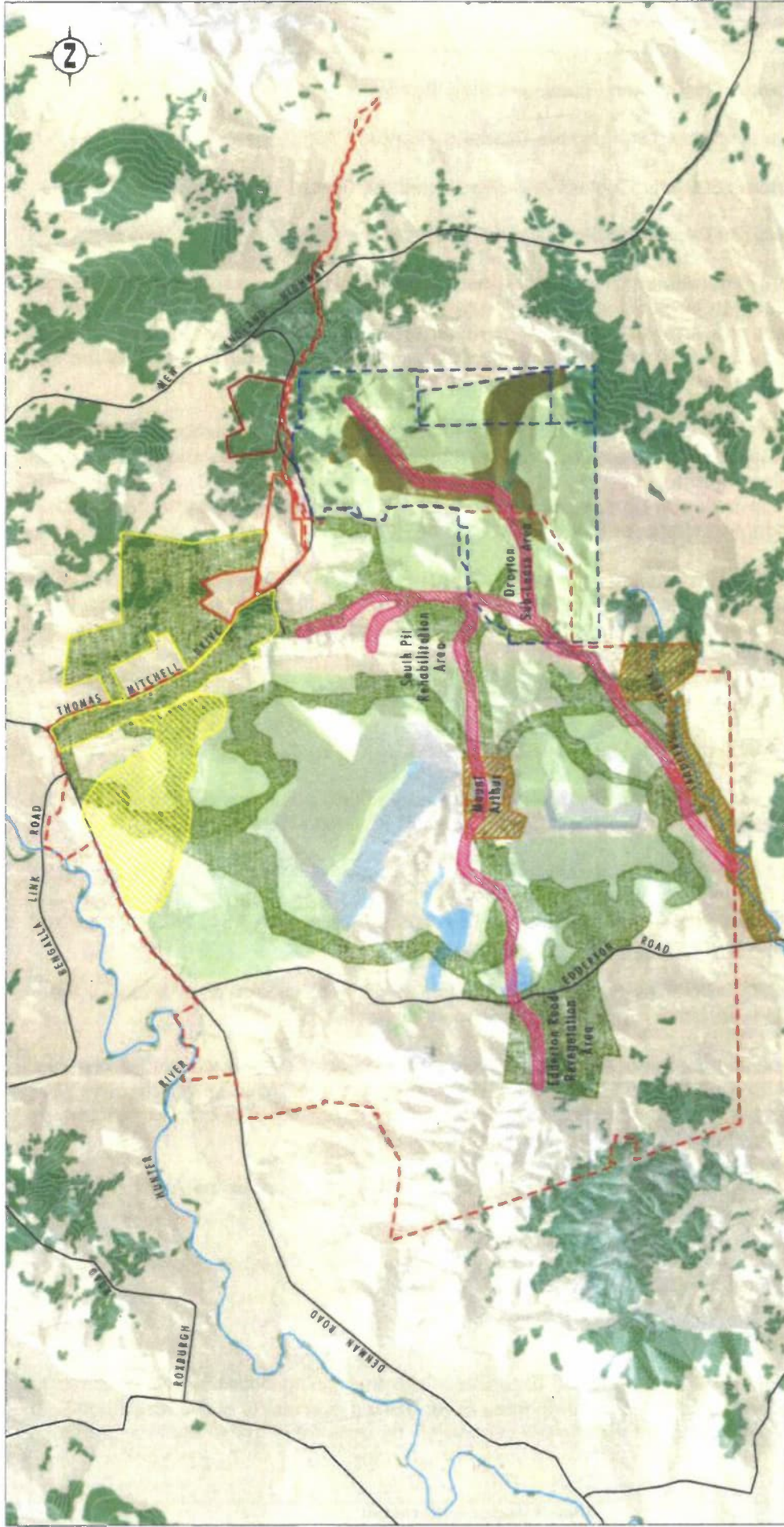
- Proposed Action Area
- Offset Property
- Crown Land

FIGURE 5

Location of State Approved  
Offset Properties







Source: Hansen Bailey  
 Note: Reproduced from Mt Arthur Coal Consolidated Project Environmental Assessment (Hansen Bailey 2009)

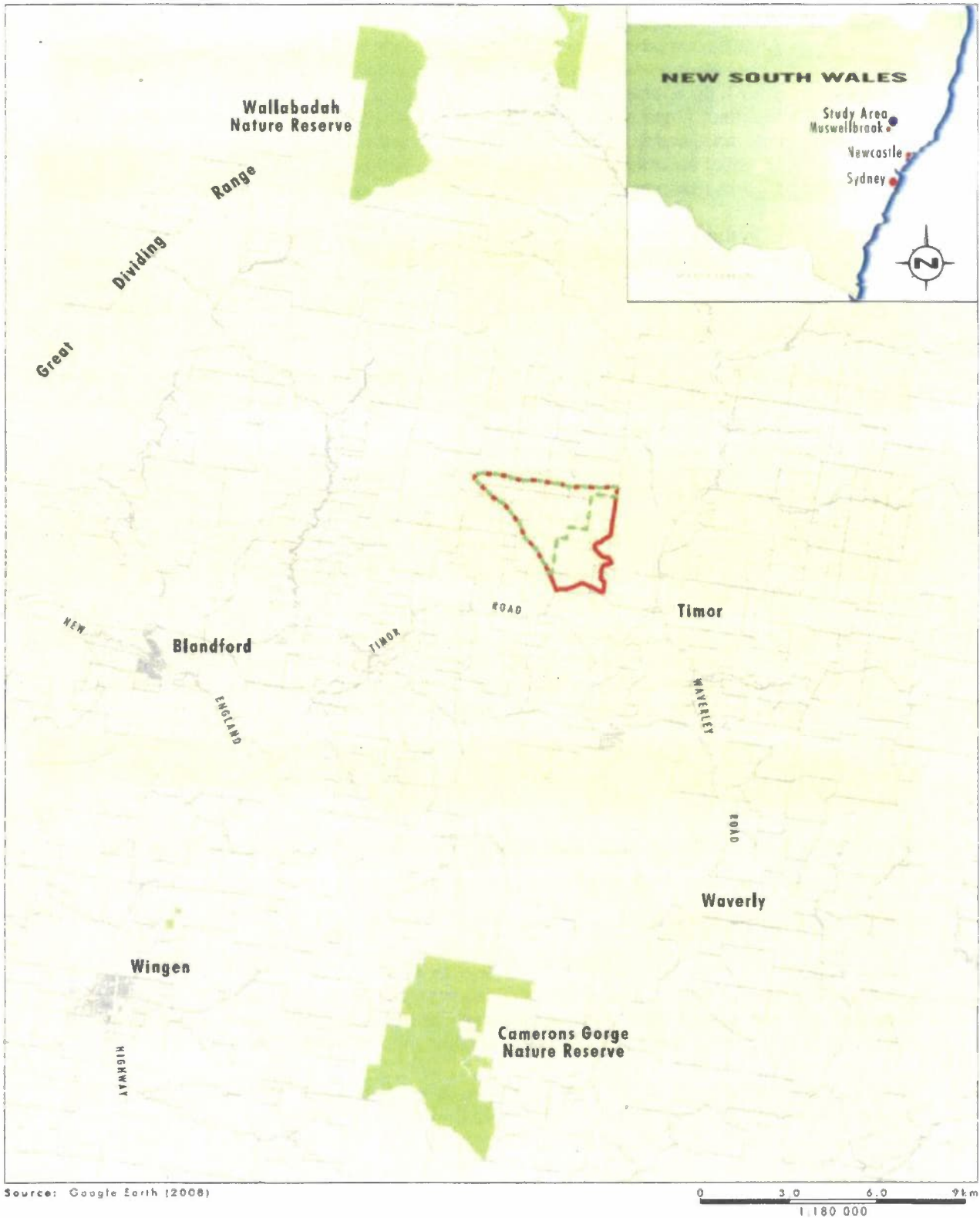
### Legend

- EA Boundary
- Droghda Coal Mining & Exploration Leases
- Final Rehabilitation
- Existing & Proposed Woodland Areas
- Remnant Woodland
- Droghda Cool Woodland Areas
- Droghda Wildlife Refuge
- Travelling Stock Reserve
- Water Storage
- Synoptic Corridors
- Proposed Offser Areas
- Proposed Regenerated Woodland Conservation Areas

## Mt Arthur Coal Complex Consolidated Offset Strategy







#### Legend

- Middle Deep Creek Property Location
- Proposed Middle Deep Creek Offset Area
- Nature Reserve
- Great Eastern Ranges Zone

FIGURE 7

Middle Deep Creek Property Location

